The Trail Inventory of Montezuma NWR

Seneca Falls, NY





Prepared By: Federal Highway Administration Central Federal Lands Highway Division September, 2012



TABLE OF CONTENTS

<u>SECTION</u>		<u>PAGE</u>
I.	TRAIL AND TRAIL FEATURE SUMMARIES	1 - 1
II.	TRAIL LOCATION MAPS	2 - 1
III.	TRAIL IDENTIFICATION LIST	3 - 1
IV.	TRAIL CONDITION RATING SHEETS	4 - 1
V.	TRAIL DEFICIENCY RATING SHEETS	5 - 1
VI.	PHOTOGRAPHIC SHEETS	6 - 1
VII.	GLOSSARY	i

Montezuma NWR

Trail and Trail Feature Summaries

Trail Miles and Percentages by Surface Type and Condition

Trail Surface	Excellent		Others		Total	
Туре	Miles	%	Miles	%	Miles	
Native	0.09	100%	0.00	0%	0.09	
Gravel	1.24	100%	0.00	0%	1.24	
Mowed	2.81	100%	0.00	0%	2.81	
Admin Road	0.00	0%	0.33	100%	0.33	
Total	4.14	93%	0.33	7%	4.47	

Trail Miles and Percentages by Trail Classification and Condition

Trail	Excellent		Others		Total
Classification	Miles	%	Miles	%	Miles
тсз	3.50	93%	0.26	7%	3.76
TC4	0.64	90%	0.07	10%	0.71
Total	4.14	93%	0.33	7%	4.47

^{*}Admin Roads are included in the inventory but are not rated for condition.

Trail Features

Trail Number	Feature Type	Quantity	Grouped Feature	Milepost	Photo
T300	Trailhead	1	No	0.00	MONT_C3_00 01
T300	Step: Log -each	1	No	0.01	
T300	Sign	2	No	0.01	MONT_C3_00 03
T300	Water Bar:Wood -each	2	No	0.02	
T300	Step: Log -each	4	No	0.03	
T300	Bridge -sf	144	No	0.04	MONT_C3_00 04
T300	Water Bar:Wood -each	2	No	0.15	
T300	Intersection	1	No	0.16	MONT_C3_02 63
T300	Sign	2	No	0.16	MONT_C3_02 64
T300	Water Bar:Wood -each	2	No	0.25	
T300	Water Bar:Wood -each	2	No	0.26	
T300	Sign	3	No	0.50	MONT_C3_00 10
T300	Begin Section	1	No	0.51	MONT_C3_001
T300	Bench	1	No	0.57	
T300	Bridge -sf	160	No	0.66	MONT_C3_00 13
T300	Begin Section	1	No	0.68	MONT_C3_00 14
T300	Lookout/Ob Deck	1	No	0.73	
T300	Water Bar:Wood -each	3	No	0.75	
T300	Sign	4	No	0.76	MONT_C3_00 16
T300	Bench	1	No	0.76	
T300	Begin Section	1	No	0.77	MONT_C3_00 20
T300	Boardwalk -lf	82	No	0.78	MONT_C3_00 24
T300	Begin Section	1	No	0.79	MONT_C3_00 26
T300	Sign	1	No	0.79	MONT_C3_00 25
T300	Water Bar:Wood -each	5	No	0.81	
T300	Water Bar:Wood -each	3	No	0.84	
T300	Bench	1	No	0.93	
T300	Water Bar:Wood -each	9	No	0.96	
T300	Water Bar:Wood -each	1	No	1.00	

T300	Max Grade- %	21	No	1.02	
T300	Bench	1	No	1.09	
T300	Water Bar:Wood -each	5	No	1.10	
T300	Water Bar:Wood -each	3	No	1.12	
T300	Water Bar:Wood -each	2	No	1.19	
T300	Bridge -sf	222	No	1.20	MONT_C3_02 62
T300	Sign	1	No	1.23	MONT_C3_00 21
T300	Water Bar:Wood -each	8	No	1.23	
T300	Sign	1	No	1.24	MONT_C3_00 18
T300	Sign	1	No	1.25	MONT_C3_00 19
T301	Trailhead	1	No	0.00	MONT_C3_00 27
T301	Sign	1	No	0.00	MONT_C3_00 28
T301	Sign	1	No	0.03	MONT_C3_00 30
T301	Lookout/Ob Deck	1	No	0.03	
T301	Begin Section	1	No	0.05	MONT_C3_00 31
T301	Begin Section	1	No	0.45	MONT_C3_00 33
T301	Sign	2	No	0.59	MONT_C3_00 32
T302	Gate	1	No	0.00	
T302	Sign	1	No	0.00	MONT_C3_02 65
T302	Trailhead	1	No	0.00	MONT_C3_00 49
T302	Culvert -If	44	No	0.01	
T302	Sign	1	No	0.05	MONT_C3_02 66
T302	Lookout/Ob Deck	1	No	0.14	
T303	Trailhead	1	No	0.00	MONT_C3_00 54
T303	Sign	1	No	0.74	MONT_C3_00 54
T400	Sign	1	No	0.00	MONT_C3_02 67
T400	Trailhead	1	No	0.00	MONT_C3_00 34
T400	Bench	1	No	0.01	
T400	Begin Section	1	No	0.01	MONT_C3_02 74
T400	Bench	1	No	0.03	
T400	Culvert -If	10	No	0.04	

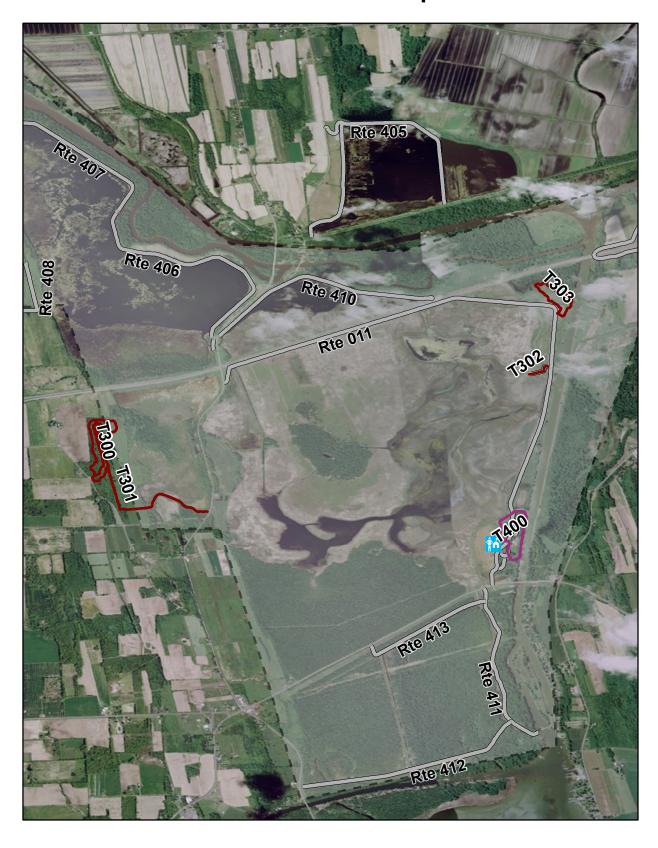
T400	Sign	1	No	0.04	MONT_C3_00 38
T400	Other	1	No	0.04	
T400	Bench	2	No	0.06	
T400	Begin Section	1	No	0.06	MONT_C3_00 41
T400	Max Grade- %	8	No	0.06	
T400	Lookout/Ob Deck	1	No	0.13	
T400	Lookout/Ob Deck	1	No	0.15	
T400	Begin Section	1	No	0.24	MONT_C3_00 44
T400	Sign	2	No	0.24	MONT_C3_02 69
T400	Begin Section	1	No	0.31	MONT_C3_00 46
T400	Other	1	No	0.31	
T400	Sign	3	No	0.31	MONT_C3_02 71
T400	Sign	2	No	0.31	MONT_C3_02 70
T400	Begin Section	1	No	0.66	MONT_C3_00 47
T400	Sign	1	No	0.66	MONT_C3_02 72
T400	Begin Section	1	No	0.75	MONT_C3_00 48
T400	Sign	1	No	0.78	MONT_C3_02 73

sf - square feet

If - linear feet

cf - cubic feet

Montezuma NWR Trail Location Map







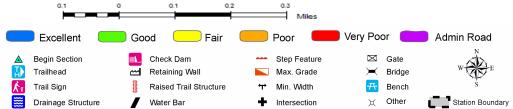


Trails ID

Station Name: Montezuma NWR Org Code: 52550

Trail Number	Trail Name	Surface Type	SAMMS	Trail Mileage	Trail Description (Begin and End point of trail)
T300	Esker Brook Trail	Gravel	10022711	0.55	From Esker Brook Parking (Rte 904) to End of Loop
T300	Esker Brook Trail	Mowed	10022711	1.21	From Esker Brook Parking (Rte 904) to End of Loop
T301	South Spring Pool Trail	Gravel	10022735	0.05	From South Spring Pool Parking (Rte 905) to Esker Brook Trail (T300)
T301	South Spring Pool Trail	Mowed	10022735	0.86	From South Spring Pool Parking (Rte 905) to Esker Brook Trail (T300)
T302	Photo Blind Trail	Admin Road	10022722	0.14	From Photo Blind Parking (Rte 913) to Photo Blind
T303	Oxbow Trail	Mowed	10054567	0.74	From Oxbow Trail Parking (Rte 914) to End of Loop
T400	Seneca Trail	Admin Road	10054612	0.19	From Visitor Parking (Rte 900) to Visitor Parking (Rte 900)
T400	Seneca Trail	Gravel	10054612	0.64	From Visitor Parking (Rte 900) to Visitor Parking (Rte 900)
T400	Seneca Trail	Native	10054612	0.09	From Visitor Parking (Rte 900) to Visitor Parking (Rte 900)





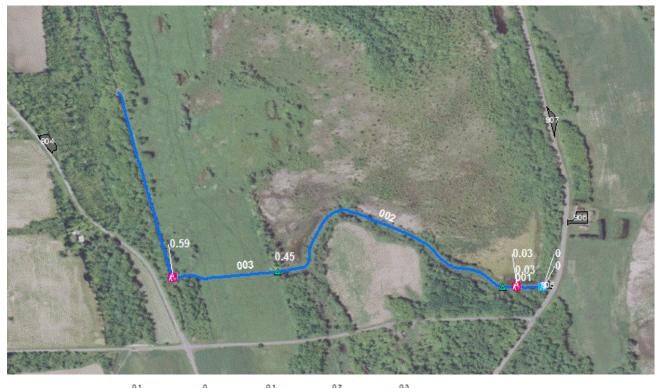
Trail Name: Esker Brook Trail Refuge Name: Montezuma NWR

Trail Number: T300 Region: 5 Total Length: 1.76 Miles

Section Number	001	002	003	004	005
Section Length (miles)	0.51	0.17	0.56	0.48	0.04
SAMMS Number	10022711	10022711	10022711	10022711	10022711
Rating Date	07/14/2006	07/14/2006	07/14/2006	07/14/2006	07/14/2006
Trail Section Information					
Trail Class	TC3	TC3	TC3	TC3	TC3
Surface Type	Gravel	Mowed	Mowed	Mowed	Gravel
Surface Firmness	Firm	Firm	Firm	Firm	Firm
Width (inches)	48	84	48	48	24
Average Grade (%)	3.5	3.5	3.5	3.5	3.5
Average X-slope (%)	2.90	2.90	2.90	2.90	2.90
Trail Condition Information					
Deferred Maintenance					
CRV	\$54,507	\$7,280	\$13,651	\$11,646	\$2,255
FCI	0.00	0.00	0.00	0.00	0.00
Condition	Excellent	Excellent	Excellent	Excellent	Excellent

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
	\$89,339	0.00	Excellent





Trail Name: South Spring Pool Trail Refuge Name: Montezuma NWR **Trail Number:** T301 Region: 5

Section Number	001	002	003	ì
Section Length (miles)	0.05	0.40	0.46	i
SAMMS Number	10022735	10022735	10022735	i
Rating Date	07/14/2006	07/14/2006	07/14/2006	ı
Trail Section Information				ì
Trail Class	TC3	TC3	TC3	i
Surface Type	Gravel	Mowed	Mowed	i
Surface Firmness	Firm	Firm	Firm	ì
Width (inches)	48	72	72	ı
Average Grade (%)	3.5	3.5	3.5	1
Average X-slope (%)	3.20	3.20	3.20	ı
Trail Condition Information				ı
Deferred Maintenance				ı
CRV	\$5,492	\$14,572	\$16,697	i
FCI	0.00	0.00	0.00	i
Condition	Excellent	Excellent	Excellent	i

Trail Condition TOTALS

Deferred Maintenance	CRV		Condition
	\$36,761	0.00	Excellent

Total Length: 0.91 Miles





Trail Name: Photo Blind Trail Refuge Name: Montezuma NWR **Trail Number:** T302 Region: 5

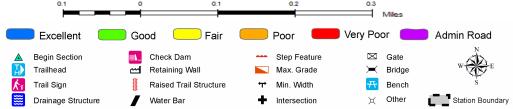
Section Number 001 Section Length (miles) 0.14 10022722 SAMMS Number 07/14/2006 Rating Date Trail Section Information TC3 Trail Class Admin Road Surface Type Surface Firmness Firm Width (inches) 84 Average Grade (%) 2.3 Average X-slope (%) 1.80 Trail Condition Information **Deferred Maintenance** CRV FCI Condition

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition

Total Length: 0.14 Miles





Trail Name: Oxbow Trail Refuge Name: Montezuma NWR **Trail Number:** T303 Region: 5

\$31,427

0.00

Excellent

Section Number 001 Section Length (miles) 0.74 10054567 SAMMS Number 07/14/2006 Rating Date Trail Section Information TC3 Trail Class Mowed Surface Type Surface Firmness Firm Width (inches) 84 Average Grade (%) 3.2 Average X-slope (%) 3.10 **Trail Condition Information Deferred Maintenance**

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
	\$31,427	0.00	Excellent

CRV

FCI

Condition

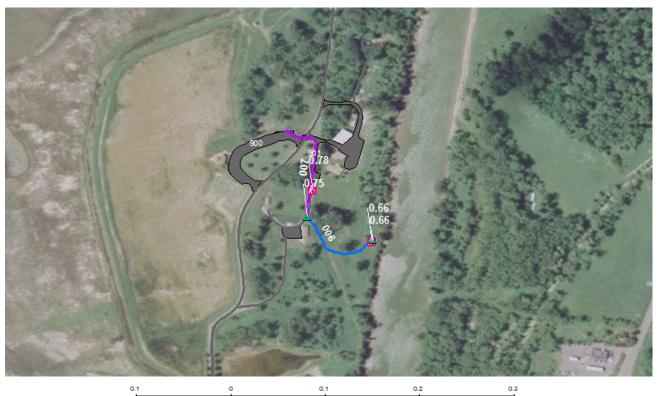
Total Length: 0.74 Miles





Trail Name:Seneca TrailRefuge Name:Montezuma NWRTrail Number:T400Region: 5Total Length:0.92 Miles

Section Number	001	002	003	004	005
Section Length (miles)	0.06	0.05	0.18	0.07	0.35
SAMMS Number	10054612	10054612	10054612	10054612	10054612
Rating Date	07/14/2006	07/14/2006	07/14/2006	07/14/2006	07/14/2006
Trail Section Information					
Trail Class	TC4	TC4	TC4	TC4	TC4
Surface Type	Gravel	Gravel	Gravel	Admin Road	Gravel
Surface Firmness	Firm	Firm	Firm	Firm	Firm
Width (inches)	60	72	60	120	60
Average Grade (%)	2.7	2.7	2.7	2.7	2.7
Average X-slope (%)	1.40	1.40	1.40	1.40	1.40
Trail Condition Information					
Deferred Maintenance					
CRV	\$7,908	\$7,592	\$23,974		\$46,474
FCI	0.00	0.00	0.00		0.00
Condition	Excellent	Excellent	Excellent		Excellent





Trail Name:Seneca TrailRefuge Name:Montezuma NWRTrail Number:T400Region: 5Total Length:0.92 Miles

Section Number Section Length (miles) SAMMS Number Rating Date	006 0.09 10054612 07/14/2006	007 0.12 10054612 07/14/2006
Trail Section Information		
Trail Class	TC3	TC3
Surface Type	Native	Admin Road
Surface Firmness	Firm	Firm
Width (inches)	96	120
Average Grade (%)	2.7	2.7
Average X-slope (%)	1.40	1.40
Trail Condition Information		
Deferred Maintenance		
CRV	\$17,796	
FCI	0.00	
Condition	Excellent	

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
	\$103,743	0.00	Excellent

TRAIL DEFICIENCY

No Deficiencies

TRAIL NUMBER: T300 STATION: Montezuma NWR

DATE: 07/14/2006



Photo # MONT_C3_0001 - MP 0.00 - Trailhead

TRAIL NUMBER: T300 STATION: Montezuma NWR



Photo # MONT_C3_0003 - MP 0.01 - Sign

TRAIL NUMBER: T300 STATION: Montezuma NWR

DATE: 07/14/2006



Photo # MONT_C3_0004 - MP 0.04 - Bridge -sf

TRAIL NUMBER: T300 STATION: Montezuma NWR



Photo # MONT_C3_0263 - MP 0.16 - Intersection

TRAIL NUMBER: T300 STATION: Montezuma NWR

DATE: 07/17/2012



Photo # MONT_C3_0264 - MP 0.16 - Sign

TRAIL NUMBER: T300 STATION: Montezuma NWR



Photo # MONT_C3_0010 - MP 0.50 - Sign

TRAIL NUMBER: T300 STATION: Montezuma NWR

DATE: 07/14/2006



Photo # MONT_C3_0011 - MP 0.51 - Begin Section

TRAIL NUMBER: T300 STATION: Montezuma NWR



Photo # MONT_C3_0013 - MP 0.66 - Bridge -sf

TRAIL NUMBER: T300 STATION: Montezuma NWR

DATE: 07/14/2006



Photo # MONT_C3_0014 - MP 0.68 - Begin Section

TRAIL NUMBER: T300 STATION: Montezuma NWR



Photo # MONT_C3_0016 - MP 0.76 - Sign

TRAIL NUMBER: T300 STATION: Montezuma NWR

DATE: 07/14/2006



Photo # MONT_C3_0018 - MP 1.24 - Sign

TRAIL NUMBER: T300 STATION: Montezuma NWR



Photo # MONT_C3_0020 - MP 0.77 - Begin Section

TRAIL NUMBER: T300 STATION: Montezuma NWR

DATE: 07/14/2006



Photo # MONT_C3_0024 - MP 0.78 - Boardwalk -If

TRAIL NUMBER: T300 STATION: Montezuma NWR



Photo # MONT_C3_0262 - MP 1.20 - Bridge -sf

TRAIL NUMBER: T300 STATION: Montezuma NWR

DATE: 07/14/2006



Photo # MONT_C3_0021 - MP 1.23 - Sign

TRAIL NUMBER: T300 STATION: Montezuma NWR

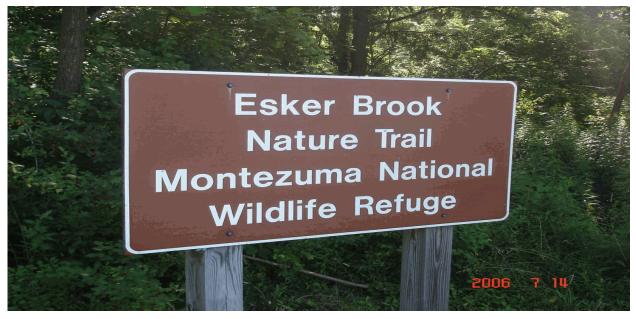


Photo # MONT C3 0019 - MP 1.25 - Sign

TRAIL NUMBER: T300 STATION: Montezuma NWR

DATE: 07/14/2006



Photo # MONT_C3_0026 - MP 0.79 - Begin Section

TRAIL NUMBER: T300 STATION: Montezuma NWR



Photo # MONT_C3_0025 - MP 0.79 - Sign

TRAIL NUMBER: T301 STATION: Montezuma NWR

DATE: 07/14/2006



Photo # MONT_C3_0027 - MP 0.00 - Trailhead

TRAIL NUMBER: T301 STATION: Montezuma NWR



Photo # MONT C3 0028 - MP 0.00 - Sign

TRAIL NUMBER: T301 STATION: Montezuma NWR

DATE: 07/14/2006

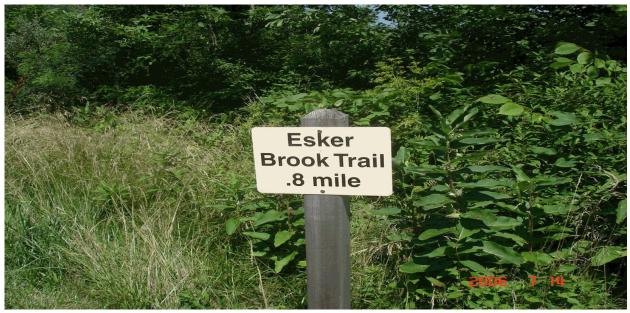


Photo # MONT_C3_0030 - MP 0.03 - Sign

TRAIL NUMBER: T301 STATION: Montezuma NWR



Photo # MONT_C3_0031 - MP 0.05 - Begin Section

TRAIL NUMBER: T301 STATION: Montezuma NWR

DATE: 07/14/2006



Photo # MONT_C3_0033 - MP 0.45 - Begin Section

TRAIL NUMBER: T301 STATION: Montezuma NWR



Photo # MONT_C3_0032 - MP 0.59 - Sign

TRAIL NUMBER: T302 STATION: Montezuma NWR

DATE: 07/17/2012



Photo # MONT_C3_0265 - MP 0.00 - Sign

TRAIL NUMBER: T302 STATION: Montezuma NWR



Photo # MONT_C3_0049 - MP 0.00 - Trailhead

TRAIL NUMBER: T302 STATION: Montezuma NWR

DATE: 07/17/2012



Photo # MONT_C3_0266 - MP 0.05 - Sign

TRAIL NUMBER: T303 STATION: Montezuma NWR



Photo # MONT_C3_0054 - MP 0.00 - Trailhead

TRAIL NUMBER: T303 STATION: Montezuma NWR

DATE: 07/14/2006



Photo # MONT_C3_0054 - MP 0.74 - Sign

TRAIL NUMBER: T400 STATION: Montezuma NWR



Photo # MONT_C3_0267 - MP 0.00 - Sign

TRAIL NUMBER: T400 STATION: Montezuma NWR

DATE: 07/14/2006



Photo # MONT_C3_0034 - MP 0.00 - Trailhead

TRAIL NUMBER: T400 STATION: Montezuma NWR



Photo # MONT_C3_0038 - MP 0.04 - Sign

TRAIL NUMBER: T400 STATION: Montezuma NWR

DATE: 07/14/2006



Photo # MONT_C3_0274 - MP 0.01 - Begin Section

TRAIL NUMBER: T400 STATION: Montezuma NWR



Photo # MONT_C3_0041 - MP 0.06 - Begin Section

TRAIL NUMBER: T400 STATION: Montezuma NWR

DATE: 07/17/2012



Photo # MONT_C3_0269 - MP 0.24 - Sign

TRAIL NUMBER: T400 STATION: Montezuma NWR



Photo # MONT_C3_0044 - MP 0.24 - Begin Section

TRAIL NUMBER: T400 STATION: Montezuma NWR

DATE: 07/17/2012



Photo # MONT_C3_0270 - MP 0.31 - Sign

TRAIL NUMBER: T400 STATION: Montezuma NWR



Photo # MONT_C3_0271 - MP 0.31 - Sign

TRAIL NUMBER: T400 STATION: Montezuma NWR

DATE: 07/14/2006



Photo # MONT_C3_0046 - MP 0.31 - Begin Section

TRAIL NUMBER: T400 STATION: Montezuma NWR



Photo # MONT_C3_0272 - MP 0.66 - Sign

TRAIL NUMBER: T400 STATION: Montezuma NWR

DATE: 07/14/2006



Photo # MONT_C3_0047 - MP 0.66 - Begin Section

TRAIL NUMBER: T400 STATION: Montezuma NWR



Photo # MONT_C3_0048 - MP 0.75 - Begin Section

TRAIL NUMBER: T400 STATION: Montezuma NWR



Photo # MONT_C3_0273 - MP 0.78 - Sign

Glossary of Terms and Abbreviations

Acc Info Accessibility information available at trailhead.

Action Action required to correct deficiency.

Admin Road Administration Road. Admin Roads signed and

advertised as trails are included in the trail inventory but

a condition assessment is NOT done.

Alt SAMMS SAMMS number of Alternate Facility Type.

Alt Type Alternate Facility Type. Trail lies on a feature such as a

levee, dam, administrative road or bridge, which has a

separate SAMMS number.

AvgGrade The average grade of the trail (%). The average of five

measurements for trails less than two miles and ten measurements for trails equal to or greater than 2 miles.

AvgSlope The average cross-slope of the trail (%). The average of

five measurements for trails less than two miles and ten measurements for trails equal to or greater than 2 miles.

Check Dam A small dam constructed across a drainage ditch, swale,

or channel to lower the speed of concentrated flows.

Condition Subjective rating of trail based on Facility Condition

Index (FCI):

FCI </= - .01 = Excellent FCI .02 - .05 = Good FCI .06 - .10 = Fair FCI .11 - .20 = Poor FCI > - .20 = Failed

Crib Wall Retaining wall.

Current

Replacement Value

(CRV)

The value of an asset determined by the estimated cost of

replacing it.

Def type Deficiency Type: Trail Structure, Drainage, Erosion,

Obstacle, Trail Location, Other.

Deferred

Maintenance (DM)

Maintenance that was not performed when scheduled.

i

Elem ID Unique identifier for each trail section: Org Code-Trail

Number-Section Number.

Facility

Condition Index (FCI)

DM/CRV

Grouped Features Grouped features include non-unique signs (mileposts,

interpretive signs, species identification, etc.), water bars, check dams, steps, drain and drainage dips. For any given grouped feature, a GPS point and photo are taken for the first occurrence only and the total number of features in the group are entered into the "quantity"

field of the data dictionary.

Info Type Type of accessibility information available at trailhead:

brochure, sign or other.

Item Item on which the "Action" (see above) will be

performed.

Manage_Use Managed use of the trail: HIKE, BIKE, NSPC (non-

specified), PACK, POR (portage), SNOWSHOE, XSKI

(cross-country ski), OTHER.

MP Distance of a trail feature or deficiency from the

Trailhead.

Puncheon Log footbridge used in area of poor drainage.

Raised Trail Structure Boardwalk, Turnpike, Puncheon.

T Class Trail Class: I-V (see Appendix? for trail class

descriptions).

Tr Desig Trail Designation: Standard (Std), National Historic Trail

(NHT), National Recreation Trail (NRT), National

Scenic Trail (NST).

Turnpike Trail tread elevated with dirt, rock or other aggregate

from parallel side ditches and held in place by logs.